## What is claimed is:

- A conductive composition for filling a via, based on total composition comprising:
- a) 4.0-12.0 wt. % organic vehicle; and
- b) 88.0 96.0 wt. % electrically conductive particles selected from the group consisting of silver and nickel and mixtures thereof.
- 2. The conductive composition according to claim 1, wherein the electrically conductive particles comprise 90.0 to 93.0 wt. %of the total composition.
- 3. The conductive composition according to claim 1, wherein the organic vehicle based on total composition comprises:
- a) 2.0 6.0 wt. % pine oil;
- b) 1.6-4.8 wt. % benzyl alcohol; and
- c) 0.4 1.2 wt. % ethyl cellulose.

- 4. The conductive composition according to claim 3, wherein the electrically conductive particles based on total composition further comprise:
- a) 15.0 60.0 wt. % silver; and
- b) 28.0 81.0 wt. % nickel.
- 5. The conductive composition according to claim 4, wherein the electrically conductive particles based on total composition further comprise:
- a) 15.0 30.0 wt. % silver; and
- b) 66.0 78.0 wt. % nickel.
- 6. The conductive composition according to claim 5, wherein the electrically conductive particles have a spherical shape.
- 7. The conductive composition according to claim 6, wherein the nickel particles have a diameter of 15.0 25.0 microns.
- 8. The conductive composition according to claim 6, wherein the silver particles have a diameter of 1.0 5.0 microns.

- 9. The conductive composition according to claim 1, wherein the conductive composition is applied to a substrate that is chosen from the group consisting of alumina ceramic and aluminum nitride.
- 10. The conductive composition according to claim 9, wherein the conductive composition is cured at a temperature range from 800 degrees Celsius to 900 degrees Celsius.
- 11. The conductive composition according to claim 10, wherein the conductive composition has a cure time between 5 and 30 minutes.

- 12. A conductive via fill composition, based on total composition comprising:
- a) 4.0-12.0 wt. % organic vehicle; and
- b) 15.0 60.0 wt. % silver particles; and
- c) 70.0 78.0 wt. % nickel particles.
- 13. The conductive via fill composition according to claim 12, wherein the organic vehicle based on total composition comprises:
- a) 2.0 6.0 wt. % pine oil;
- b) 1.6 4.8 wt. % benzyl alcohol; and
- c) 0.4 1.2 wt. % ethyl cellulose.
- 14. The conductive via fill composition according to claim 13, further comprising:
- a) 15.0 30.0 wt. % silver; and
- b) 66.0 78.0 wt. % nickel.
- 15. The conductive via fill composition according to claim 14, wherein the nickel and silver particles have a spherical shape.
- 16. The conductive via fill composition according to claim 15, wherein the nickel particles have a diameter of 15.0 25.0 microns.

- 17. The conductive via fill composition according to claim 16, wherein the silver particles have a diameter of 1.0 5.0 microns.
- 18. The conductive via fill composition according to claim 12, wherein the conductive composition is applied to a alumina ceramic.
- 19. The conductive via fill composition according to claim 18, wherein the composition is cured at a temperature from 800 degrees Celsius to 900 degrees Celsius.
- 20. The conductive via fill composition according to claim 19, wherein the composition has a cure time between 5 and 30 minutes.